High-voltage flexible busbar patent

This paper discusses the advantages and limitations of cable connections, rigid bus bar connection and flexible bus bar connections for high current density applications.

A busbar is an electrical conductor adapted to connect several electrical outputs to a common power source within an automobile. A key strategy for the worldwide automotive industry is ...

With the busbar provided with the insulating structure between adjacent connection terminals, the clearance/creepage distance problems, particularly occurring at high voltages, can be solved...

Description This application is directed to an electrical bus bar, particularly a flexible bus bar that is configured to be used in high voltage circuit applications, such as electric or hybrid electric vehicles.

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A busbar assembly is disclosed herein. The assembly includes a ring body having a plurality of openings extending in an axial direction and configured to receive electrical wire connections, and...

The invention relates generally to a busbar interconnect system for an inverter, which facilitates the connection between a high-voltage DC battery and a high-voltage inverter.

According to aspects of the invention, a flexible busbar includes: a central electrical conductor; and a flexible electrically-insulating sleeve surrounding the conductor, wherein the sleeve...

A flexible busbar includes a central conductor (generally of rectangular cross section comprising multiple layers of thin aluminum, copper or other alloys with good electrical properties ...

The flexible electrical connector includes a flexible electrical conductor, a terminated end electrically and mechanically connected to the flexible electrical conductor, and a captive fastener for ...

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